DUNAYEV, Yu.D.; KIR'YAKOV, G.Z.

Potentials of lead-base cermet anodes in sulfuric acid solutions.

Izv. AN Kazakh. SSR. Ser.khim. no.1:12-18 '58. (MIRA 12:2)
(Electromotive force) (Electrodes) (Sulfuric acid)

KIR'YAKOV, G.Z.; BAYONIYETOVA, F.K.

Simultaneous formation of hydrogen and sinc on binary cathodes in the presence of some surface active substances. Izv. AN Kasakh.

SSR. Ser.khim. no.1:19-22 '58. (MIRA 12:2)

(Hydrogen) (Zinc) (Surface-active agents)

SHELUDYAKOV, L.N.; KIR'YAKOV, G.Z.

Complex extraction of heavy metals from molten silicates by cementation with carbon-saturated liquid iron. Izv. AN Kasakh. SSR. Ser. khim. no.1:29-37 '58. (MIRA 12:2) (Metallurgy)

SHELLIDYAKOV, L.N.; KIR'YAKOV, G.Z.; LYUBIMOVA, L.S.

Complex extraction of metals from molten slags of shaft-furnace lead smelting by cementation with carbon-saturated liquid iron. Isv. AN Kazakh. SSR. Ser.khim. no.1:38-45 158. (MIRA 12:2) (Metallurgy) (Slag)

# "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722720014-6

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		Hi.: Y.Y. Aleksendriyskiy; Yosh, ed.: S.P. Berskins; Hitterial Beard of Series; I.T. Lebetin, Y.H. Liyushchmhe, G.L. Elr'yskov (Bearty Bear, Ed.), H.T. Bealevskiy, (Beap. Mr.) and L.H. Medudyskov,	·
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### "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722720014-6

KIR YAKOV, G.Z.: RAYNIYETOVA, P.K.

Affect of the impurities of some metal ions on the cathode processes during the electrolysis of sinc sulfate at high current densities. Trudy Inst. khim. mank AN Kasakh. SSR 3:64-71 '58. (MIRA 12:3)

(Zinc sulfate) (Electrolysis)

KIR'YAKOV, G.Z.; SHELUDYAKOV, L.N.; ZABOTIN, P.I.

Vladimir Vil'gel'movich Stender: on his 60th birthday and 36th anniversary of his scientific and pedagogical activity. Zhur. prikl. khim. 31 no.1:3-4 Ja '58. (MIRA 11:4) (Stender, Vladimir Vil'gel'movich 1897-)

Obtaining pure menon. Zhur. prikl. khim. 31 no.1:5-13 Ja '58.

(Xenon)

5(4)

AUTHOR:

Kiriyakov, G. Z.

SOV/76-32-11-15/32

TITLE:

On Some Rules Governing the Discharge of Zinc and Hydrogen Ions From Sulfuric Solutions in the Presence of Metal Impurities More Electropositive Than Zinc (O neketerykh

zakonomernostyakh razryada ionov tsinka i vodoroda iz sernokislykh rastvorov v prisutstvii primesey metallov, boleye elektro-

polozhitel nykh chem tsink)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1958, Vol 32, Nr 11, pp 2561-2564

(USSR)

ABSTRACT:

In the presence of copper, cobalt, antimony, nickel ions and other impurities the current yield of zinc sharply decreases in electrochemical zinc precipitations up to high current densities (Refs 1,2). To classify the influence of these impurities the model method (Ref 3) was employed. The cathode pairs Zn-Cu, Zn-Co, Zn-Sb and Zn-Pb were investigated. The potential curves were obtained from 2 N sulfuric solutions and zinc sulfate containing sulfuric solutions (Tables 1-4). The potential of the Zn cathode decreases in the presence of the above mentioned metal ions for two reasons: On the one

Card 1/3

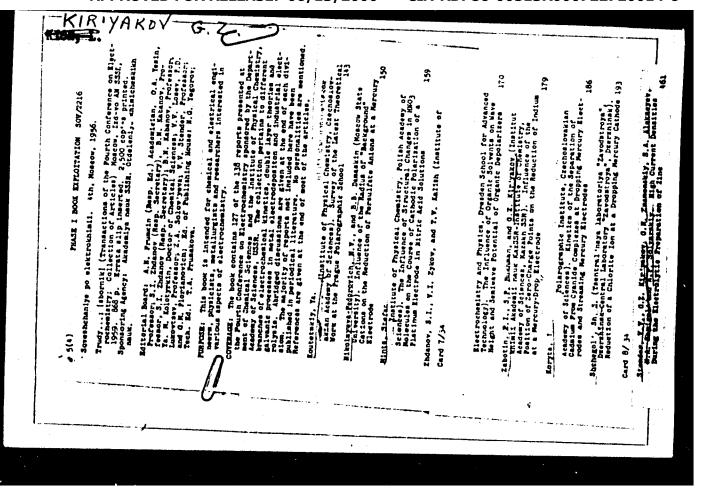
On Some Rules Governing the Discharge of Zinc and Hydrogen Ions From Sulfuric Solutions in the Presence of Metal Impurities More Electropositive Than Zinc

hand the potential of the impurities is lower than that of zinc, and on the other hand a considerable part of the current belongs to the metal impurities and thus decreases the current density on the zinc surface, by which fact the potential of the zinc cathode is displaced to the more positive side (with the exception of lead). The real surface of the zinc cathode represents a complex system of anodic and cathodic segments. At high current densities (0.1 Ampere/cm2 and more) the cathodic segments (metal impurities) serve as active centers of the hydrogen separation. Since these centers, however, are covered with zinc, the electrocrystallization of zinc in these places takes place more rapidly, which fact causes the dendrite formation. There are 4 figures and 4 Soviet references.

ASSOCIATION:

Akademiya nauk Kazakhskoy SSR, Institut khimicheskikh nauk, Alma-Ata (Academy of Sciences KazakhSSR, Institute of Chemistry,

Card 2/3



# VAKHIDOV, R.S.; KIR'YAKOV, G.Z. Corrosion of zinc in a sulfuric acid - zinc electrolyte containing manganese dioxide. Isv.AN Kazakh.SSR.Ser.khim. no.1:44-46 '59. (Zinc--Corrosion) (Manganese oxide) (Sulfuric acid)

ZABOTIN, P.I.; KIR'YAKOV, G.Z.; TUROMSHINA, U.F.

Yield of chromium in relation to the current and pH of the electrolyte. Isv.AN Kasakh. SSR. Ser. khim. no.2:9-13 '59.
(MIRA 12:8)

(Chromium)

KIR'YAKOY. G.Z.: VAKHIDOV, R.S.

Corrosion of sinc in a sinc sulfate electrolyte in the presence of permanganate ions. Izv.AN Kasakh.SSR.Ser.khim. no.2:14-17 [MIRA 12:8]

(Zinc--Corrosion)

BUNDZHE, V.G.; KIR'YAKOV, G.Z.

Mffect of certain surface-active substances on the corrosion of electrolytic zinc. Izv.AN Kazakh.SSR.Ser.knim. no.2:18-25 '59. (MIRA 12:8)

## "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722720014-6

RAZINA, N.F.; KIR'YAKOV, G.Z.

Lend-dioxide electrodes. Izv.AN Kazakh.SSR.Ser.khim. no.2:2631 '59. (MIRA 12:8)

(Blectrodes, Oxide)

5(1,2) AUTHORS:

Vakhidov, R. S., Kir'yakov, G. Z.

507/153-2-2-18/31

TITLE:

The Rôle of Manganese in the Electroseparation of Zino (O roli margantsa pri elektroosashdemii tsinks)

PERIODICAL:

Isvestiya vysshikh uchebnykh savedeniy. Khimiya i khimicheskaya tekhnologiya, 1959, Vol 2, Nr 2, pp 238 - 243 (USSR)

ABSTRACT:

Up to now no uniform opinion has been achieved regarding the rôle of manganese as mentioned in the title. The authors see the main reason for this in the fact that most investigation took place without a separation of the anodic and cathedic space. For this reason manganese compounds of various degrees of oxidation and in different quantitative relations were present in the electrolyte, all at the same time. This resulted from the conditions and from the kind of the electrolytic procedure. Other admixtures are also apt to impair the character of manganese. In the present article the authors had the aim of explaining the effect of the different valence states of manganese on the sinc separation, conditioned by the current, as well as by the effect on the quality of the cathodic sinc sediment in the pure, so-called "standard" electrolytes at different current densities and temperatures. Figure 1 shows the dependence of the sinc separation and of the cathode potential upon

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"APPROVED FOR RELEASE: 06/13/2000

The Rôle of Manganese in the Electroseparation of Zino

SOT/153-2-2-18/31

the Mn 2+ concentration. Figure 2 illustrates the same in its dependence upon the MnO2 content in the electrolyte. The same is shown in figure 4 in its dependence upon Nino4. Figure 5 gives the dependence of the potential of a sino cathode upon the MinO4 content in the electrolyte. Figure 6 shows the influence of the temperature on the sino separation, conditioned by the current in the presence of different Emo, amounts. On the basis of the results obtained, the authors draw the following conclusions: 1. Manganese may be present in a sinc electrolyte as bivalent ions, as dioxide and as permangenate ions. 2. Even in large quantities, ions of bivalent mangemese have only little effect on the zino separation, reducing it slightly. 3. In quantities of 1 to 3g/1, amgamese dioxide considerably reduces the sino separation, but improves the quality of the sino sediment (Fig 3). 4. Permanganate ions have the worst influence. At high temperatures and low current densities, the sinc separation is reduced by dosens of percents, or even down to mil in the presence of permangalists. In our case the quality of the sediment is influenced by manganese dioxide. There are 6 figures

Card 2/3

The Hôle of Mangamese in the Electroseparation of Zino

307/153-2-2-18/51

and 26 references, 24 of which are Soviet.

ASSOCIATION:

Institut khimicheskikh nauk AN KarSSH (Institute of Chemical

Sciences of the AS Kazakh (SSR)

SUBMITTED:

January 27, 1958

Card 3/3

VAKHIDOV, R.S.; KIRTYAKOV, G.Z. Influence of manganese compounds on the electrodeposition of zinc

in the presence of other impurities. Izv. AN Kazakh. SSR Ser. (MIRA 14:5) khim. no. 2:50-60 160.

(Zinc plating)

### "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722720014-6

KIR'YAKOV, G.Z.; RAZINA, N.F.; DUNAYEV, Yu.D.

Insoluble anodes based on lead. Trudy Inst.khim.nauk AN Kazakh.

(MIRA 14:4)

SSR 6:3-53 '60.

(Electrodes, Lead)

DUNAYEV, Yu.D.; KIR'YAKOV, G.Z.

Distribution of potential and current in the pores of an anode based on lead during its polarization in sulfuric acid solutions. Trudy Inst.khim.nauk AN Kazakh.SSR 6:67-85 '60. (MIRA 14:4) (Electrodes, Lead) (Electrochemistry)

### "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722720014-6

Electrolysis of sulfate solutions of zinc. Trudy Inst.khim.nauk
(MIRA 14:4)

AN Kazakh.SSR 6:86-93 '60.
(Zinc-Electrometallurgy)

VAKHIDOV, R.S.; KIR'YAKOV, G.Z.

Role played by manganese in the electrodeposition of zinc.

Trudy Inst.khim.nauk AN Kazakh.SSR 6:94-104 160. (MIRA 14:4)

(Zinc plating) (Manganese)

BUNDZHE, V.G.; KIR'YAKOV, G.Z.

Effect of the addition of surface active agents on the zinc potential in the processes of corrosion and electrolysis. Trudy Inst.khim. nauk AN Kazakh SSR 6:105-114 '60. (MIRA 14'4) (Surface active agents) (Electrolytic corrosion) (Zinc)

S/080/60/033/010/010/029 D216/D306

AUTHORS: Stender, V. V., Kir'yakov, G.Z., and Vakhidov, R.S.

TITLE: The effect of manganese on the electrodeposition

of zina

PERIODICAL: Zharhal prikladnoy khimii, v. 33, no. 10, 1960,

2236 - 2245

TEMP: In expaning processes for producing zinc electrolytically where the c.d. does expeed 600 A/ $M^2$ , compounds of the higher ownded of manganese have little effect on the enthale. Much work is being done on electrolysis of ZnSC, solutions at very high c.d.s.

This demands a high solution feed rate, and causes increased gass- / ing of the cathode with consequent agitation of the electrolyte. — It had already been found that Mn causes lower a thode current efficiencies, while the presence of permanganates causes depolarization at the cathode. The insiting concentration of Mn is 3 gr./1;

Cari 1/4

200

The effect of manganese on ...

S/080/60/033/010/010**/**029 D216/D306

if it is higher, it produces a considerable reduction in current efficiency. The following processes are shown graphically in the article: The corrosion rate in gr./M2-hr. plotted against the MnO<sub>2</sub> content of the electrolyte (gr./l) et 3 given temperatures; The corrosion rate of Zn in gr./M2 hr. plotted against KMnO<sub>4</sub> concentration at various temperatures: It is pointed out that the action of Mn compounds on the corrosion of Zn is determined by their surface activity and exidicing properties. MnO<sub>2</sub> particles are absorbad on the surface of the zinc and react with Zn atoms to form unphased layers of the type NnO<sub>3</sub> ado. The complex sorption layer both protects the Zn from solution in the acid and slows down the reaction of Zn with MnO<sub>4</sub> ions. Further shown are the relation of the current efficiency of Zn cathodes, and the cathode potential to efficiency of Zn to MnO<sub>2</sub> content of the electrolyte; the relation of current efficiency with KnO<sub>2</sub> present in the electrolyte together with Sb Card 2/4

The Affect of manganese on ...

\$/080/60/033/010/010/029 D216/D306

Limit 1), Na(2 gm/1), iron oxide (10 mg/1), Co(9 mg/1), Na(2 gm/1), C1 (50 mg/1), Pb (bivalent saturated). On the single to the electrolyte the reduction of mathode efficiency is the single at the electrolyte the reduction of mathode efficiency is the single at the mathode from other impurities. It is concluded solved a mathode from other impurities. It is concluded solved a mathode from other impurities. It is concluded solved a mathode presence of oil gm/1 kmog; the presence of potential and by the presence of 0.1 gm/1 kmog; the presence of potential trian presentation of since in the standard fell on the electrodeposition of sinc; manganese dioxide in small pointies are present (Sb, Cu, Ni, Pb, etc.). Ni g is larger amounts a mathod the arrant efficiency (by 4 - 5 %), but as a surface-active mathod and the present in since electrodeposition. At high temperatures Cond 3/4

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000722720014-6"

The effect of manganese on ...

S/080/60/033/010/010/029 D216/D306

and low c.d. the current efficiency falls considerably is the presence of KMnO<sub>4</sub>, but KmnO<sub>4</sub> in small amounts (0.3 - 0.5 gm/l) lowers the negative effect of impurity is tallions, it is hardly possible to exclude manganese compounds from hydrometallurgical processes. In the electrolytic both Mn. compounds do not occur in critical constities to cause hermful effects in the electrodeposition; the two product is manginese dioxide which settles to the bottom of the bath as slimes. There are 8 figures and 48 references: 42 Soveral English-language publications read as follows: A. L. Harshall, L. Faraday Soc., 21, 297, 1925-26; D.M. Liddell, Handbook of Lower Foundary, N.Y. Sec. Ed., 1945; V.C. King and M.E. C., 619, 1957.

SUET ITTED: March 24, 1960

C 19 4/4

8/137/62/000/001/204/237 A154/A101

AUTHORS:

Razina, N. P., Zabotin, P. I., Kir'yakov, G. Z.

TITLE:

The effect of certain additives on the buffer properties of tri-

valent chromium

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 1, 1962, 91, abstract 11643 ("KazSSR Gylym Akad, khabarlary, Izv. AS KazSSR, Ser. khim.", 1961,

no. 1[19], 40-46, Kazakh summary)

Pure salts of Cr3+ (sulfates and especially chlorides) have a very TEXT: low buffer capacity when pH = 2-3, and an even lower buffer capacity when pH = 3-4. Additions of NHhCl and (NHh) 250h increase the buffer capacity of the solution scarcely or not at all. The buffer capacity of sulfuric-acid and hydrochloric-acid solutions of Cr3+ can be raised several times by the introduction of buffers in an amount of 2-3 moles/1. Solutions changing color when the buffer is added to them have a particularly high buffer capacity, probably as a result of complex formation. There are 10 references.

[Abstracter's note: Complete translation]

Ye. Layner

Card 1/1

S/081/62/000/002/064/107 B156/B101

AUTHORS:

Vakhidov, R. S., Kir'yakov, G. Z.

TITLE:

Is manganese necessary in hydrometallurgical methods of

producing zinc?

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 2, 1962, 368, abstract 2K139 (Metallurg. i khim. prom-st' Kazakhstana. Nauchnotekhn sb., no. 1(11), 1961, 56-58)

TEXT: The transformations of Mn taking place during electrolysis, and the effects of Mn compounds on the processes taking place at the cathode during the electrolytic precipitation of Zn from a solution of the following composition (Zn 60,  $H_2SO_4$  100 g/l) are examined; temperature 20-70°C, J cathode 100-10,000 a/m<sup>2</sup>. It is pointed out that it is hardly advisa It is pointed out that it is hardly advisable

to exclude Mn compounds entirely from methods of producing Zn, since MnO has a good effect on the electrolytic precipitation of Zn; in electrolysis. however, the concentration of  $MnO_4$ , which is the compound exerting the worst effects on electrolysis, must be small. 9 references. [Abstracter's note: Card 1/1

S/137/62/000/003/057/191 A006/A101

AUTHORS:

Zabotin, P. I., Razina, N. F., Kir'yakov, G. Z.

TITLE:

Polarographic investigation of the effect of the medium on pH of

chromium hydroxyde deposition

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 31 - 32, abstract 30213 ("Izv. AN KazSSR, Ser. khim". 1961, no. 1 (19), 32 - 39, Kaz.

summary)

The polarographic method was used to study pH of Cr(OH)3 formation in  $Cr_2(SO_4)_3$  solutions with 3.8 ·  $10^{-3}$  M Cr-concentration in the presence of 0.1 M  $Na_2SO_4$  0.2 M  $(NH_4)_2SO_4$  and a series of buffer admixtures. The authors revealed the effect of these admixtures upon the reduction of  $Cr^{3+}$  on the Hg-electrode. They showed the increase in pH of  $Cr(OH)_3$  deposition in the presence of  $(NH_1)_2SO_4$ , urea, and semicarbazide, as compared to  $Na_2SO_4$  solution. Stable complex  $Cr^{3+}$  compounds are formed with citric and tartaric acids; such compounds do not form Crhydroxides at any pli values of the solution and are not reduced on the Hg-electrode at pH > 2.5 - 3.5. There are 24 references.

[Abstracter's note: Complete translation]

Ye. Layner

Card 1/1

SHELUDYAKOV, L.N.; KIR'YAKOV, G.Z.; LYUBIMOVA, L.S. [deceased]

Solubility of copper is cast iron gaturated with carbon. Izv.AN
Kazakh. SSR. Ser.khim. no.1:60-62 '61. (HIRA 16:7)

(Iron-carbon-copper alloys)

BAYNIYETOVA, F.K.; KIR'YAKOV, G.Z.

Simultaneous discharge of zinc and hydrogen ions in sulfuric acid solutions. Zhur.prikl.khim. 35 no.4:903-905 Ap '62.

(MIRA 15:4)

(Zinc) (Sulfuric acid) (Electromotive force)

BUNDZHE, V.G.; KIR'YAKOV, G.Z.

Effect of some surface-active addition agents on electrode processes under conditions of inhomogeneity of a zinc cathode surface. Trudy Inst. khim. nauk AN Kazakh. SSR 9:3-17 '62. (MIRA 16:6)

(Electrodes, Zinc) (Surface-active agents)

S/850/62/009/000/001/012 B117/B186

AUTHORS:

Dunayev, Yu. D., Kir'yakov, G. Z., Chernysheva, Z. N.

TITLE:

Inhomogeneity of the surface and electrode processes on

porous lead anode

SOURCE:

Akademiya nauk Kazakhskoy SSR. Institut khimicheskikh nauk. Trudy. v. 9. Alma-Ata, 1962. Elektrokhimiya rastvorov i

metallicheskikh sistem, 18-41

TEXT: The laws governing the distribution of processes whose sequence and rate depends on the change in potential along the pores were studied. As regards the reactions producing oxygen, lead dioxide, and lead sulfate, equations were derived for the distribution of potential and current in the pores according to their diameter, for the conductivity of electrolyte and for the current density. At high polarization, oxygen was shown to form also over a comparatively short pore section. In the potential region, this section, whose length remains practically constant at sufficiently long polarization time, is above +1.760 v. The velocity of the process can be expressed with sufficient accuracy by the Tafel equation.

Card 1/3

S/850/62/009/000/001/012 B117/B186

Inhomogeneity of the surface and ...

The formation of lead dioxide, during which the potential is slightly shifted from its equilibrium value, takes place in a section at some distance from the pore opening, this section being bounded by the zone of lead sulfate formation and its length increasing with time. The sulfate formation begins in the region of potential change, in which the density of available current is commensurable with the exchange current for Pb ≥ Pb The process Pb > PbSO4 was found to take place in a tube of finite length in the region of positive potentials (far away from  $\psi = -0.299 \text{ v}$ ). This region is determined by the exponential distribution theorem for the current density along the tube. Experimental and theoretical data are in good agreement. A pore model (consisting of a tube with exchangeable units) was used for studying the effect of alloying additives on the current distribution and on the increase in anode stability: additives that redistribute the current on microsections under the protective layer and whose ions affect the structure and strength of the PbO, film as well as the kinetics and mechanism of oxygen formation (e.g. silver) are especially effective in metal-ceramic compounds; additives whose action depends on structural changes of the alloy (e.g. thallium) are most

Card 2/3

S/850/62/009/000/001/012 B117/B186

Inhomogeneity of the surface and ...

effective in cast electrodes (solid solutions). The effect of metal ions which increase the stability of Pb sets in at a current density of more than  $10^{-4} a/cm^2$ , i.e. in the potential region of the formation of highly oxidized compounds. The formation of the PbO<sub>2</sub> film is replaced partly by the formation and continuous regeneration of a phase layer of easily decomposing metal oxides. The overpotential of oxygen is reduced. There are 11 figures and 1 table.

Card 3/3

s/850/62/009/000/002/012 B117/B186

AUTHORS:

Zabotin, P. I., Razina, N. F., Kir'yakov, G. Z.

TITLE:

Stability of bivalent chromium in aqueous solutions

SOURCE:

Akademiya nauk Kazakhskoy SSR. Institut khimicheskikh nauk. Trudy. v. 9. Alma-Ata, 1962. Elektrokhimiya rastvorov i

metallicheskikh sistem, 42-48

TEXT: The effect of some factors on the oxidation of Cr2+ in hydrogen medium at 48-50°C was studied on the basis of experimental data published. Cr<sup>2+</sup> was shown to oxidize but slowly without catalyst, as the reaction which takes place together with the formation of molecular hydrogen, is difficult to bring about. It takes place at an average rate of 4.10-5 moles per 24 hrs and is not accelerated either by additional amounts of  $(NH_A)_2SO_A$ ,  $NH_ACl$ , or NCl or by an increase in pH by  $H_2SO_A$  or HCl. This is due to strong polymerization accompanying the oxidation and also to the reduction of  $\operatorname{Cr}^{3+}$  in  $\operatorname{Cr}^{2+}$ .  $(\operatorname{NH}_A)_2\operatorname{SO}_A$ , however, has a noticeable effect

Card 1/2

Stability of bivalent chromium ...

on the rate of Cr2+ oxidation in solutions of sulfuric acid by atmospheric oxygen. Metals with the lowest overpotential of hydrogen (exceAPPROVED,FQR:RELEASE:p)106/120/2000: modilA:RDR36:00513R000722720014-6

accelerating Cr2+ oxidation. Oxidation of Cr2+ on metal surfaces is facilitated, as it can take place as a reaction of lower order. Apart from that, conjugated reactions on metal surfaces without catalyst usually occur at different places. There are 1 figure and 4 tables.

S/850/62/009/000/003/012 B117/B186

AUTHORS:

Zabotin, P. I., Razina, N. F., Kir'yakov, G. Z.

TITLE:

Oxidation of trivalent chromium on lead anode

SOURCE:

Akademiya nauk Kazakhskoy SSR. Institut khimicheskikh nauk. Trudy. v. 9. Alma-Ata, 1962. Elektrokhimiya rastvorov i

metallicheskikh sistem, 49-54

TEXT: The effect of current density and some other factors on the oxidation of Cr III - Cr VI was studied. A 100% yield in Cr VI was shown to be possible only at very low current densities (30 - 100 a/m²). The current yield of Cr VI is reduced considerably by an increase in current density, irrespectively of the ratio Cr III: Cr VI. An addition of Fe III which is hardly effective, reduces the current yield of Cr VI slightly, and shifts the anode potential toward negative values. The dependence of the current yield on the current density and on the degree of Cr III oxidation was analyzed by plotting partial polarization curves for the oxidation of Cr III and oxygen formation: One of the causes of this dependence lies in the low values of maximum current density

Card 1/2

S/850/62/009/000/003/012
Oxidation of trivalent chromium ... B117/B186

(characteristic of anodic Cr III oxidation) at comparatively high concentrations of discharging ions. Polarization increases very much with the current density. This was indicated by the very steep rise of the partial polarization curve for Cr III oxidation (~0.250 as compared to 0.065 in oxygen formation). The specifically high polarization of Cr III oxidation was assumed to have two causes: (1) Cr III cations hardly reach the positive anode surface; (2) Cr VI anions firmly adsorbed on the anode, are difficult to remove. Therefore, these factors naturally depend on the charge of anode surface. Owing to its larger surface, lead oxide is better suited for the oxidation of Cr III - Cr VI than platinum. Pb + 1% Ag or Co addition into the anode space are not to be recommended, as Cr II oxidation is decelerated owing to the depolarization of oxygen formation. There are 3 figures and 1 table.

Card 2/2

Electrodeposition of zinc on cathods made of various metals. Zhur-prikl.khim. 35 no.12:2661-2666 D '62, (MIRA 16:5)

(Zinc plating)

KIR'YAKOV, Gleb Zakharovich; PONOMAREV, V.D., akaderik, retsenzent; SONGHIA, O.A., doktor khim. nauk, retsenzent; KUSHNIKOV, Yu.A., B.N., doktor khim. nauk, retsenzent; KUSHNIKOV, Yu.A., kand. khim. nauk, retsenzent; ILYUSHCHENKO, V.M., kand. khim. nauk, retsenzent; KOZIN, L.F., kand. khim. nauk, otv. red.; IVANOVA, E.I., red.

[Electrode processes in sulfuric acid solutions of zinc] Elektrodnye protsessy v sernokislykh rastvorakh tsinka. Alma-Ata, Nauka, 1964. 186 p. (MIRA 17:12)

1. Akademiya nauk Kaz.SSR (for Ponomarev).

Effect of certain impurities and summixtures on the condition of a cadmium cathode. Trudy Inst. khim. nauk an Augustus (MIFA 18:2)

BUNDTHE, V.G.; KIR'YAKOV, G.7.

Electrolysis of cadmium in sulfate solutions in the presence of zinc ions and surface-active substances. Trudy Inst. khim. mauk AN Kazakh.SSR 12:13-17 '64. (MIFA 18:2)

BUNDZHE, V.G.; KIR'YAKOV, G.Z.; BAYNIYETOVA, F.K.

Effect of titanium sulfate on the electrodeposition of zi: c from sulfate solutions. Trudy Inst. khim. nauk AN Kazakh.SSR (MIRA 18:2)

VASIL'YEVA, Ye.I.; ZABOTIN, P.I.; KIR'YAKOV, G.Z.

Effect of the composition of a solution on the electrolytic reduction of chromium ions; polarographic study. Trudy Inst. khim. nauk AN Kazakh.SSR 12:57-68 '64. (MIRA 18:2)

RAZINA, N.F.; ZABOTIN, P.I.; KIR'YAKOV, G.Z.

Effect of the permeability of diaphragms on chromium electrodeposition from sulfate solutions. Trudy Inst. khim. nauk AN Kazakh. SSR 12:69-77 '64. (MIRA 18:2)

DUNAYEV, Yu.D.; KIR'YAKOV, G.Z.

Macromodelong of a pore as a method of studying porous electrochemical systems. Trudy Inst. khim. nauk AN Kazakh.SSR 12:137-156 '64. (MIRA 18:2)

KIRYAKOV, H. [Kiriakov, Kh.];

Iodometric method for quantitative determination of streptomycin. Doklady BAN 16 no. 4: 385-387 163.

 Submitted by Corresponding Member B. Kourtev [Kurtev, B.].

## KIRYAKOV, H.

Iodometric method for quantitative determination of streptomycin. Dokl. Bolg. akad. nauk 16 no.4:385-387 163.

1. Submitted by Corresponding Member B. Kourtev.
(STREPTOMYCIN) (CHEMISTRY, ANALYTICAL)

# KIRYAKOV, H. [Kiriakov, Kh.]

New qualitative reaction for streptomycin. Doklady BAN 16 no.1:43-44 \*63.

1. Submitted by Corresponding Member B. Kourtev [Kurtev, B.]

13.

L 33507-66  ACC NR: AP6023498  SOURCE CODE: BU/0016/65/000/007/0405/0408
AUTHOR: Kiryakov, I.; Bonev, A.; Spirov, G.
ORG: Institute for Scientific Research in Dermatology and Venereology/headed by Prof. P. Popkhristov/ (Nachroizsledovatelski kozhno-venerologichen institut)
TITLE: Some aspects of the epidemiology of lues
SOURCE: Suvremenna meditsina, no. 7, 1965, 405-408
TOPIC TAGS: epidemiology, nervous system disease, genitourinary system disease, infective disease, man
ABSTRACT: In one group, up to 65% of male syphilitic patients had contracted the infection during homosexual relationships; analysis of 154 homosexual men: ages (80 were below 25 years old) 69 'true' and 85 'occasional' or 'opportunistic' homosexuals; lues was diagnosed in 57 (37%) mostly with 'atypical' (i.e. anal, etc.) lesions. [Based on authors' Eng. abst.] [JRS]
SUB CODE: 06 / SUBM DATE: OOMar65 / ORIG REF: 002 / OTH REF: 015
Card 1/1 8 <sup>3</sup> .

SPIROV, G.; BONEY, AB. KIRYAKOV, IV.

Current 'problems of urogenital trichomoniasis. Suvr. med. 16 no.11: 690-700 '65.

1. Nauchno-izsledovatelski koshno-venerologichen institut (direktor - prof. P. Popkhristov).

#### PETKOV, II.

Bulgaria

No degree listed

Department of Skin and Venereal Diseases of the Higher Medical Institute (Vissh Meditsinski Institut), Sofia; Cepartment Head: Prof L. POPOV Scientific Research Skin-Venerological Institute (Nauchno-issledovatelskiya Kozhno-venerologichen Institut), Sofia; Director: Prof P. POPKHRISTOV.

Sofia, <u>Dermatologiya i Venerologiya</u>, aupplement of <u>Suvremenna Meditaina</u>, No 1, 1962, pp 12-16.

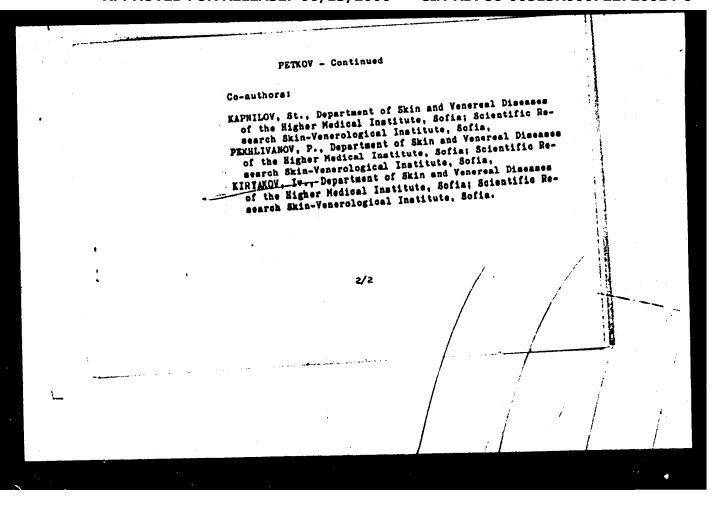
"The Treatment of Severe Alopecias with Hormonal and Neuroplegic Druge"

Co-authors:

BOTEV, Sht., Department of Skin and Venereal Diseases of the Higher Medical Institute, Sofia; Scientific Research Skin-Venerological Institute, Sofia.

1/2

CIA-RDP86-00513R000722720014-6" **APPROVED FOR RELEASE: 06/13/2000** 



#### BULGARIA

GEORGIEV, Iv., KIRYAKOV Kr., KOSTOV, N., MOLKHOV, Zh., PETROV, P., IVANCHEV, V., POPOV, St., and VASILEV, Khr.

"Occupational Diseases of the Nervous System and Neurological Medical Aid at Enterprises"

Sofia, <u>Nevrologiya</u>, <u>Psikhiatriya i Nevrokhirurgiya</u>, Vol 5, No 1, 1966, pp 1-11

Abstract: It is brought out that the frequency and gravity of occupational diseases of the peripheral and central nervous system and of psychoneuroses with an occupational background increased in Bulgaria during 1953-1962. This is explained by the accelerated rate of economic development. Statistics of relative severity and of the average number of days lost according to occupations are presented. Conditions arising as a result of exposure to noise and vibrations are discussed. With respect to neurointoxications, the increase of their incidence among agricultural workers, particularly in connection with the use of organophosphorus compounds, is pointed out. The danger presented by radiation sickness to radiologists, engineers using X-rays in work on metals, persons occupied at the nuclear center, etc., is mentioned. Organization of a more effective neurological medical service at industrial enterprises is proposed. Graphs, 58 references (all Bulgarian). Manuscript received Sep 65. 1/1

Wome electronocepholographic citeria of fatigue following mental work. Phur. vya. nerv. melau. 12.0.35412 cit. by it 164.

[NOR 17.31]

1. Tricks of Medical Institute, infine Bulgaria.

KIRYAKOV, K.; VASILEVA, M. (Bolgariya)

Physiological characteristics of the work of telephone operators. Gig. truda i prof. zab. no.3:54 162. (MIRA 15:4)

(TELEPHONE\_EMPLOYEES)

KiryaKov, K.R.

BULGARIA/Safety Engineering. Sanitary Engineering. Sanita-L tion.

Abs Jour: Ref Zhur-Khimiya, No 3, 1957, 10688

Aleksieva, T. S. and Kiryakov, K. R. Author

Inst Not given

Title On the Reaction to Lead of Painters Working with Red

Lead

Suvrem. med., 1956, Vol 7, No 4, 61-66 (in Bulgarian) Orig Pub:

Abstract: Case studies on 164 workers in railroad maintenance

shops working with red lead and ranging in age from 20 to 60 years with service periods of up to 20 years have shown symptoms of nervous disorders in 37.6% of the

cases (of that number two-thirds are workers with service periods exceeding ten years). The initial stages of lead poisoning were observed in 15% of the cases. Chronic poisoning was observed in 1% of the cases (service periods exceeding 20 years). The authors recommend the substitution of iron exides for lead exides in maintain the substitution of iron exides for lead exides in maintain.

tion of iron oxides for lead oxides in paint formulations,

Card 1/2

BULGARIA/Safety Engineering. Sanitary Engineering. Sanita- L tion.

Abs Jour: Ref Zhur-Khimiya, No 3, 1957, 10688

Abstract: the organization of hot water showers, sanitary control inspections, the provision of lockers for the storage of work clothing, and the washing of the latter in a soda solution containing naphthalenesulfonic acid. The workers must be provided with canvas working gloves, the storage of food in the working areas must be forbidden, and prophylactic medical examinations must be given not less than once a year; the medical examinations must be carried out with the participation of a neuropathologist, a therapist, and a stomatologist, and regular laboratory blood analyses must be made. The authors attach great importance to the medicoprofessional selection of the

workers and to sanitary instruction work.

Card 2/2

OYVIN, I.A.; KIR TAKOV, M.A.; KOROLEVA, L.V.; ROMANOVSKAYA, L.L.; SVESHNIKOV, A.A.; TOKAREV, O.Yu.; UKLONSKAYA, L.I.

Radiometric study of problems of the pathogenesis and experimental therapy of inflammatory edemas. Vest. AMN SSSR 20 no.9:87-93 65. (MIRA 18:11)

1. Institut meditsinskoy radiologii AMN SSSR, Obninsk.

# DERKACHEVA, Z.N.; KIR'YAKOV, M.A.

Gase of free autoplasty with a "sieve" skin graft. Ortop. travm.i protes. 21 no.2:62-63 F 160. (MIRA 13:12) (SKIN GRAFTING)

BABUSHKINA, M.D.; BABAYEV, Ye.V.; KIR'YAKOV, M.F.; KARASIK, K.K.; SHARAPOVA, Z.I.; KRAPIVIN, I.N.

Industrial hubble-cap column for the production of sulfite acid by the milk-of-lime method. Bum.prom. 34 no.6:12-15 Je '59. (MIRA 12:10)

1. Hoskovskiy filial TSentral'nogo nauchno-issledovatel'skogo instituta tsellyuloznoy i bumashnoy promyshlennosti (for Babushkina, Babayev). 2. Sokol'skiy tsellyulozno-bumashnyy kombinat (for Kir'-yakov, Karasik, Sharapova). 3. Sukhonskiy tsellyulozno-bumashnyy kombinat (for Krapivin).

(Sulfite liquor) (Plate towers)

BABUSHKINA, M.D.; BABAYEV, Ye.V.; KIR'YAKOV, M.F.; KARASIK, S.S.; SHARAPOVA, Z.I.

Using unburnt crushed limestone to produce sulfite by the bubble column method. Bum.prom. 34 no.9:13-17 S 159. (MIRA 13:2)

1. Moskovskiy filial TSentral'nogo nauchno-issledovatel'skogo
instituta tsllyulosnoy i bumazhnoy promyshlennosti (for Babushkina,
Babayev). 2. Sokol'skiy tsellyulosno-bumazhnyy kombinat (for
Kir'yakov, Karasik, Sharapova).

(Woodpulp) (Sulfur dioxide)

ADRIANOV, P.K.; ANDRIANOV, S.M.; BEREZIKOV, B.S.; GOLOYKO, V.G. [Holovko, V.H.]; DOBROVOL'SKIY, A.V. [Doborovol's'kyi, A.V.]; DOVGAL', M.F. [Dovhal', M.F.]; YELIZAROV, V.D. [IElizarov, V.D.]; ZHIZDRIHSKIY, V.M. [Zhyzdryns'kyi, V.M.]; ZVENIGORODSKIY, O.M. [Zvenigorods'kyi, O.M.]; ZAYCHENKO, R.M. [Zaichenko, R.M.]; IVANENKO, Ye.I. [Ivanenko, IM.I.]; KOMAR, A.M.; KOS'YANOV, O.M.; KAZAKOV, O.I.; KOSEMKO, S.K.; KLIMUNKO, T.A.; KEDAMAKOV; JO.P.; KALISHUK, O.L.; LELICHENKO, M.T.; LEBEDICH, M.V.; MIKHAYLOV, V.O. [Mykhailov, V.O.]; MOROZ, I.I.; MOSHGHIL', V.Yu. [Moshchil', V.IU.]; HEPOROZHNIY, P.S. [Neporozhnii, P.S.]; NEZDATNIY, S.M. [Nezdatnyi, S.M.]; NOVIKOV, V.I.; POLEVOY, S.K. [Polevoi, S.K.]; PEREKHREST, M.S.; PUZIK, O.Ye. [Puzik, O.E.]; RADIN, K.S.; SLIVINSKIY, O.I. [Slivins'kyi, O.I.]; STANISLAVSKIY, A.I. [Stanislavs'kyi, A.I.]; USPENSKIY, V.P. [Uspens'kyi, Y.P.]; KHOKHOT, O.Ya.; KHILYUK, F.P.; TSAPENKO, M.P.; SHVETS, V.I.; MAL'CHEVSKIY, V. [Mal'chevs'kyi, V.], red.; ZELENKOVA, Ye. [Zelenkova, E.], tekhm.red.

[The Ukraine builds] Ukraina buduie. Kyiv. Derzh.vyd-vo lit-ry z budivnytstva i arkhit., 1957. 221 p. (MIRA 11:5) (Ukraine--Construction industry)

KIRYAKOV, P.

How the LZIKPB (Amateur Radio Station) at the City of Burgas Appeared in the Ether. "PADIO" Ministry of Communication, #9:15: Sept 55

County Exhibition at the City of Stalin. "MADIO" Ministry of Communication, 99:16: Sept 55	
County Exhibition at the City of Stalin. "MADYO" Ministry of Communication, 99:16: Sept 55	

NTICHTYASHCHIY, S.I. ("oskva); KIR'YLMOV, V.I. (Hoskva)

Device for banging maps, posters and illustrations with the help of permanent magnets. Biol. v shkole no.6:78-79 N-D '61. (MTR. 14:11) (Schools—Furniture, equipment, etc.)

ACCESSION NR: AT4012863

8/3069/63/000/000/0099/0110

AUTHOR: Kushnerev, D. M.; Kir 'yakov, V. M.

TITLE: Investigation of the effect of alloying elements on the properties of high-manganese austenitic weld metal

SOURCE: Svarka spetsial'ny\*kh metallov i splavov. Kiev, Izd-vo AN UkrSSR, 1963, 99-110

TOPIC TAGS: welding, austenitic steel, weld metal, manganese steel alloying element, nickel, manganese, steel welding, alloy steel

ABSTRACT: Lately, the welding of high-strength medium-alloy steel is acquiring increasing importance, but still presents severe difficulties (crack formation) due to the high content of C and alloying elements. Austenitic Cr-Ni steel is commonly used as the weld metal. However, due to the high cost of Ni, it would be advantageous to replace this with a nickel-free high-manganese weld metal which would still have an austenitic structure. In addition, ceramic fluxes are used to prevent oxidation and introduce modifying elements into the weld. The present authors studied the structure and mechanical properties of welds made with Sv-08 electrode wire, the composition of the weld metal being modified via the flux. As shown in Fig. 1 of the Enclosure, the optimal Mn content

#### ACCESSION NR: AT4012863

in the weld metal was 27-30%. The addition of modifying elements such as Ti, Al, Si, V, Mb and Cr was also found to improve the structure and mechanical properties; in particular, a high Cr content together with Al and Ti guaranteed high resistance to crack formation. X-ray analysis of the weld metal structure confirmed the results of mechanical tests and showed that the austenitic structure was only preserved with a Mn content within the limits of 25-34%. Orig. art. has: 1 table and 8 figures.

ASSOCIATION: None

SUBMITTED: 00

DATE ACQ: 13Feb64

ENCL 01

SUB CODE: MM

NO REF SOV: 004

OTHER: 003

Card

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3/3

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Card

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000722720014-

ACC NR: AP6032533

SOURCE CODE: UR/0413/66/000/017/0133/0133

INVENTOR: Kushnerev, D. M.; Svetsinskiy, V. G.; Kir'yakov, V. M.; Kuznetsov, V. I.; Polikarpov, B. S.

ORG: none

TITIE: Ceramic flux for submerged arc welding of high-strength steels. Class 49, No. 185676 [announced by the Electric Welding Institute im. Ye. O. Paton, AN UKrSSR (Institut elektrosvarki AN UKrSSR)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 17, 1966, 133

TOPIC TAGS: automatic welding, high strength steel welding, ARC WELDING, CERUINIC MATERIAL

ABSTRACT: This Author Certificate introduces a ceramic flux for submerged arc welding of high-strength steels containing calcium fluoride, rutile concentrate, ferrotitanium, and ferromanganese. To improve the mechanical properties of welded joints and the technological properties of the flux, 5—12% quartz sand, 3—6% manganese ore, 4—6% manganese metal, 1% aluminum powder, and 18—24% sodium disilicate are added to the flux composition. The rest of the components are taken in the following proportion: 10—18% fluorspar, 30—40% rutile concentrate, 0—2% ferrotitanium and 3—5% ferro manganese.

SUB CODE: 13/ SUBM DATE: 23Jan65/

Card 1/1

UDC: 621.791.048

# "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722720014-6

AKSELIROD, S., saslushennyy master sporta; KIR'YAKOV, Yu.

Callisthenics in industry. Okh. truda i sots.strakh. no.1:54-55
Ja '60. (MIRA 13:5)

(Callisthenics) (Industrial hygiene)

International conference on plant protection. Priroda 46 no.1:112
Ja '57. (NLRA 10:2)

(London--Plants, Protection of--Congresses)

GUK, M.I.[Huk, M.I.], POLOVKO, I.K.,[Polovko, I.K.], PRIKHOT'KO, G.F.,

[Prykhot'ko, H.F.], KIR'YAKOV, Yu. F.,[Kir'yakov, IV. F.], red.;

GCRBUNOVA, N.M., tekhn. red.

[Climate of the Ukraine; a brief account] Klimat Ukraine koi RSR; korotkyi narya. Kyiv. Derzh. uchovo-pedagog. vyd-vo "Radiana ka shkola," 1958. 69 p. (MIRA 11:11) (Ukraine--Climate)

BURDEYNYY, Petr Andreyevich [Burdeinyi, P.A.]; RUBIN, Mikhail Borisovich [Rubyn, M.B.]; KIR'YAKOY, Yu.F., red.; PIPA, L.D. [Pypa, L.D.], red. kart; GORBUNOVA, N.M. [Horbunova, N.M.], tekhn. red.

[Vinnitsa Province; geographical study] Vinnits'ka oblast'; geografichnyi narys. Kyiv, Dersh. uchbovo-pedagog. vyd-vo "Radians'ka shkola," 1961. 115 p. (MIRA 14:9) (Vinnitsa Province—Geography)

STROYEV, Konstantin Fedoseyevich; KIRY-MANY, Yu.F., red.; PIPA, L.D., red. kart; GORBUNOVA, N.M. [Horbunova, N.M.], tekhn. red.

[Geography of the U.S.S.R.; textbook for the seventh and eighth gradws of the eight-year school] Geografiia SRSR; pidruchnyk dlia 7-8 klasiv vos'nyrichnoi shkoly. Kyiv, Derzh. uchbovo-pedagog. vyd-vo "Radians'ka shkola," 1961. 282 p. (MIRA 15:3)

(Geography)

IAPKO, Mikhail Vladimirovich; RUFIN, Valentin Andreyevich; TVERDOKHLEBON,
Ivan Trofimovich [Tverdokhliebov,-I.T.]; KIR YAKOV, IU.F., red.;
LEBEDEV, I.P. [Lebediev, I.P.], red.kart; GORBUNOVA, N.M.
[Horbunova, N.M.], tekhm. red.

[Crimean Province; geographical study] Kryms'ka oblast'; geografichnyi narys. Kyiv, Derah. uchbovo-pedagog. vyd-vo "Radians'ka shkola," 1961. 138 p. (MIRA 15:4) (Crimea—Geography)

KRASNIKOV, Makar Filippovich; TREGUBA, Semen Grigor'yevich
[Trehuba, S.H.]; KIR'YAKOV, Yu.F., red.; CORBUNCVA, N.M.
[Horbunova, N.M.], tekhn. red.

[Kharkov Province; a geographical sketch]Kharkivs'ka oblast';
geografichnyi narys. Kyiv, Radians'ka shkola, 1962. 101 p.

(MIRA 16:1)

(Kharkov Province—Economic geography)

BOGATSKIY, A. V.; GORYACHUK, N. A.; TISHCHENKO, O. I.; KIR'YAKOVA, A. A.

Synthesis and transformations of alkyl-  $\alpha$ -alkoxyethylmalonic esters. Part 3: Synthesis and saponification of alkyl-  $\alpha$ -methoxyethylmalonic esters. Zhur. ob. khim. 33 no.1:42-45 (MIRA 16:1)

1. Odesskiy gosudarstvennyy universitet.

(Malonic acid) (Saponification)

Chemical quality indices of raw leather. Kozh.obuv.prom. 4
no.11:28-30. N '62. (Leather-lesting)

"Biology and Morphology of the Larvae of Fleas of the Gemus Ceratophyllus."

Tenth Conference on Parasitological Problems and Diseases with Natural Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of Sciences, USSR, Moscow-Leningrad, 1959.

Zoological Institute, USSR Academy of Sciences, Leningrad

Larvae of fleas of the family Pulicidae. Report No.1: Exterior morphology of larvae of the cat flea Ctenocephalides felis Bouché, 1835. Paraz. sbor. 20:306-323 '61. (MIRA 14:9)

1. Zoologicheskiy institut AN SSSR.
(FLEAS) (LARVAE—INSECTS)

Larvae of fleas of the family Ctenophthalmidae. Report No.4. Zool. zhur. 43 no.4:572-580 '64. (MIRA 17:8)

1. Zoological Institute, Academy of Sciences of the U.S.S.R., Leningrad and Rostov-on-Don Research Anti-Plague Institute.

Laboratory methods for studying the biology of flea reproduction (Aphaniptera). Ent. obos. 40 no.2:443-447 '61. (MIRA 14:6)

1. Zoologicheskiy institut AN SSSR.

(Entomological research)

(Fleas)

An instance of the feeding of flea larvae on adult fleas.
Zool. shur. 42 no.6:950 163. (MIRA 16:7)

1. State Research Anti-Plague Institute of Rostov-on-Don. (Fleas) (Cannibalism(Animals))

#### "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722720014-6

Kir'yakova, M.P. AUTHOR: The Structure of the Absorption Spectrum of Thallous Chloride TITLE: (O strukture spektra pogloshcheniya khloristogo talliya) Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, 1958, PERIODICAL: Vol 3, Nr 4, pp 241-245 (USSR) Shishlovskiy, Vysochanskiy, Nikitin and Reys have demonstrated ABSTRACT: that a fine structure similar to that present in silver halogenides exists in the thallous chloride absorption spectrum. The author made a detailed study of the absorption spectrum to check this assumption. Thallous chloride was coated on quartz sheets by sublimation of the salt in a deep vacuum. The absorption spectrum was measured using: 1) an ISP-22 quartz spectograph and a three-prism glass spectrograph, 2) an SF-4 spectrophotometer and 3) a double monochromator fitted with a photo-electric intensirier. After standard development, the spectrograms were measured with a point microphotometer at 40-60 A intervals and then, for more detailed results, every 15-20 A. From the blackening curves derived from the results, the absorption of the thallous chloride layer was worked out and set out in the form of absorption curves

Card 1/2

The Structure of the Absorption Spectrum of Thallous Chloride SOV 77-3-4-1/23

and tables. Some samples were treated with pure dry chlorine and others subjected to progressive heating. The absorption curves for these are also adduced. The natural absorption maximum is found at 2,450 A. The fine structure found in the ultra-violet and visible portions of the absorption spectrum of the exposed thallous chloride is closely linked with the photochemical decomposition of the TICl and points to a similarity in the photochemical processes of this and silver halogenides. The author thanks Professor Ye.A. Kirillov and Dotsent S.I. Golub for their help. There are 6 graphs, 1 table and 8 references 5 of which are Soviet, 2 German and 1 French.

ASSOCIATION:

Odesskiy gosudarstvennyy universitet im. Mechnikova (Odessa State University imeni Mechnikov)

SUBMITTED:

February 26, 1957

1. Thallium chlorides--Spectrographic analysis 2. Spectrophotometers -- Applications

Card 2/2

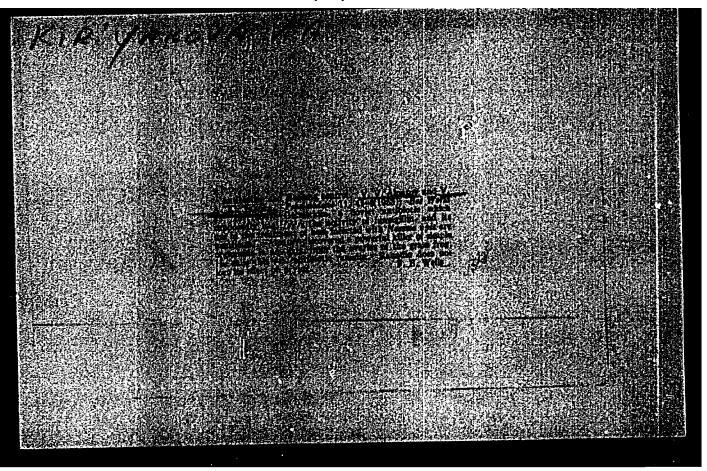
## "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722720014-6

KIR'YAKOVA, V. A. Cand. Biolog. Sci.

Dissertation: "Data on the Pathological Physiology and Biology of Bees Infected with Nosema and the Chemotherapy of Nosematosis." Moscow Order of Lenin State U imeni M. V. Lomonosov, 11 Jun 47.

SO: Vechernyaya Moskva, Jun, 1947 (Project #17836)

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722720014-6



# "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722720014-6

KIR!YAKOVA, V. A.

Yeast

Effect of yeast feed on the development and productivity of honey bees, Pchelovodstve 30 No. 2, 1953

Menthly List of Russian Accessions, Library of Concress, June 1953, Uncl.

### KIR'YAKOVA, V.A.

Economic characteristics of honeybees and the effect of high and low hive entrances on the temperature inside the hive. Uch.sap.

Kursk.gos.ped.inst. no.4:70-83 157. (MIRA 12:4)

1. Is kafedry biologii (sav. - prof. E.R. Geller) Kurskogo gosudarstvennogo pedagogicheskogo instituta. (Bee culture)

KIR TAKOVA, V.A., kand.biol.mauk

Excursion to the apiary. Biol. v shkole no.4:61-64 Jl-Ag '58.

(MINA 11:9)

1. Kurskiy pedagogicheskiy institut.

(Bee culture--Study and teaching)

### KIR'YAKOVA, V.A.

Increasing the efficiency of bee culture in Kursk Province. Uch. zap.Kursk.gos.ped.inst. 12:106-120 '61. (MIRA 17:4)

1. Kafedra zoologii Kurskogo gosudarstvennogo pedagogicheskogo instituta.

YERU, I.I.; LANGE, A.A.; TIMOSHENKO, V.A.; KIR'YAKOYA, Ye.T.

Hydrogenation of naphthalene and naphthalene-containing oils.

Koks i khim. no. 5:44-46 '61. (MIRA 14:4)

1. Ukrainskiy uglekhimicheskiy institut.
(Naphthalene) (Hydrogenation)

# KIR'YAKOVA, Ye.V. (Moskva)

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KIR'YANOVA, O.S., dotsent

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